

DT09 Rec'd PCT/PTO 28 SEP 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

10/509115

Applicant : Albert E. Sanderson et al. Art Unit : Unknown
Serial No. : Not Yet Assigned Examiner : Unknown
Filed : Herewith
Title : VARIABLE STROKE/CLEARANCE MECHANISM

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450


INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449. A copy of communications from a foreign patent office in a counterpart application are also enclosed.

This statement is being filed with the application. Accordingly, only copies of foreign patent documents and non-patent literature are enclosed. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 9/28/04


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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 09850-016US1	Application No. 10/509115 Not Yet Assigned
	Applicant Albert E. Sanderson et al.		
	Filing Date Herewith	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	748,559	12/29/1903	Peet			
	AB	812,636	2/13/1906	Callan			
	AC	821,546	5/22/1906	Smallbone			
	AD	1,019,521	3/5/1912	Pratt			
	AE	1,161,152	11/23/1915	Nyborg			
	AF	1,194,258	8/8/1916	Walker			
	AG	1,210,649	1/2/1917	Holley et al.			
	AH	1,255,973	2/12/1918	Almen			
	AI	RE15,442	9/5/1922	Almen			
	AJ	1,577,010	3/16/1926	Whatley			
	AK	1,648,000	11/8/1927	Lee			
	AL	1,659,374	2/14/1928	Robson			
	AM	1,673,280	6/12/1928	Evans			
	AN	1,772,977	8/12/1930	Arrighi			
	AO	1,842,322	1/19/1932	Hulsebos			
	AP	1,857,656	5/10/1932	Oldfield			
	AQ	1,894,033	1/10/1933	Farwell			
	AR	1,968,470	7/31/1934	Szombathy			
	AS	2,042,730	6/2/1936	Redrup			
	AT	2,048,272	7/31/1936	Linthicum			
	AU	2,104,391	1/4/1938	Redrup			
	AV	2,112,934	2/23/1937	Stinnes et al.			
	AW	2,151,614	9/17/1937	Nevatt et al.			
	AX	2,247,527	11/10/1939	Stinnes			
	AY	2,256,079	9/16/1941	Dinzi			
	AZ	2,263,561	11/25/1941	Biermann			
	BA	2,282,722	1/30/1940	Hall			

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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(37 CFR §1.98(b))			

	BB	2,302,995	11/24/1942	Holmes			
	BC	2,303,838	12/1/1942	Hall			
	BD	2,335,048	11/23/1943	Feroy			
	BE	2,341,203	8/31/1942	Borer			
	BF	2,357,735	7/3/1943	Hall			
	BG	2,465,510	10/23/1944	Bonnafe			
	BH	2,513,083	06/27/1950	Eckert			
	BI	2,532,254	11/28/1950	Bouchard			
	BJ	2,539,880	1/30/1951	Wildhaber			
	BK	2,653,484	9/29/1953	Zecher			
	BL	2,737,895	3/13/1956	Ferris			
	BM	2,827,792	1/22/1953	Hopkins			
	BN	2,910,973	11/3/1959	Witzky			
	BO	2,940,325	6/14/1960	Nesch			
	BP	2,957,421	10/25/1960	Mock			
	BQ	3,000,367	9/19/1961	Eagleson			
	BR	3,076,345	2/5/1963	Leciercq			
	BS	3,077,118	2/12/1963	Robbins			
	BT	3,176,667	4/6/1965	Hammer			
	BU	3,182,644	5/11/1965	Drtna			
	BV	3,198,022	8/3/1965	Algor de Waern			
	BW	3,273,344	9/20/1966	Christenson			
	BX	3,292,554	12/20/1966	Hessler			
	BY	3,386,425	6/4/1968	Morsell			
	BZ	3,528,317	9/15/1970	Cummins			
	CA	3,590,188	6/29/1971	Frink et al.			
	CB	3,654,906	4/11/1972	Airas			
	CC	3,842,440	10/22/1974	Karlson			
	CD	3,847,124	11/12/1974	Kramer			

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Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Albert E. Sanderson et al.	
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	CE	3,861,829	1/21/1979	Roberts et al.			
	CF	3,877,839	4/15/1975	Ifield			
	CG	3,939,809	2/24/1976	Rohs			
	CH	3,945,359	3/23/1976	Asaga			
	CI	3,959,983	6/1/1976	Roberts et al.			
	CJ	3,968,699	7/13/1973	van Beukering			
	CK	3,969,046	7/13/1976	Wynn			
	CL	3,974,714	8/17/1976	Fritsch			
	CM	4,011,842	3/15/1977	Davies et al.			
	CN	4,060,178	11/29/1977	Miller			
	CO	4,066,049	1/3/1978	Teodorescu et al.			
	CP	4,075,933	2/28/1978	Stephens			
	CQ	4,077,269	3/7/1978	Hodgkinson			
	CR	4,094,202	6/13/1978	Kemper			
	CS	4,100,815	7/18/1978	Kemper			
	CT	4,112,826	9/12/1978	Cataldo			
	CU	4,144,771	3/20/1979	Kemper et al.			
	CV	4,152,944	5/8/1979	Kemper			
	CW	4,168,632	9/25/1979	Fokker			
	CX	4,174,684	11/20/1979	Roseby et al.			
	CY	4,178,135	12/11/1979	Roberts			
	CZ	4,178,136	12/11/1979	Reid et al.			
	DA	4,203,396	5/20/1980	Berger			
	DB	4,208,926	6/24/1980	Hanson			
	DC	4,231,724	11/4/1980	Hope et al.			
	DD	4,235,116	11/25/1980	Meijer et al.			
	DE	4,236,881	12/2/1980	Pfleger			
	DF	4,270,495	6/2/1981	Freudenstein et al.			
	DG	4,285,303	8/25/1981	Leach			

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Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date Herewith	Group Art Unit
		DT09 Rec'd PCT/PTO 2.8 SEP 2004	

	DH	4,285,640	8/25/1981	Mukai			
	DI	4,294,139	10/13/1981	Bex et al.			
	DJ	4,297,085	10/27/1981	Brucken			
	DK	4,323,333	4/6/1982	Apter et al.			
	DL	4,342,544	8/3/1982	Pere			
	DM	4,345,174	8/17/1982	Angus			
	DN	4,349,130	9/14/1982	Bair			
	DO	4,418,586	12/6/1983	Maki et al.			
	DP	4,433,596	2/28/1984	Scalzo			
	DQ	4,433,596	2/28/1984	Scalzo			
	DR	4,449,444	5/22/1984	Forster			
	DS	4,454,426	06/12/1984	Benson			
	DT	4,478,136	10/23/1984	Heiser et al.			
	DU	4,489,682	12/25/1984	Kenny			
	DV	4,491,057	1/1/1985	Ziegler			
	DW	4,505,187	3/19/1985	Burgio di Aragona			
	DX	4,513,630	4/30/1985	Pere et al.			
	DY	4,515,067	5/7/1985	Heyl			
	DZ	4,545,507	10/8/1985	Barall			
	EA	4,569,314	2/11/1986	Milu			
	EB	4,602,174	07/22/1986	Redlich			
	EC	4,708,099	11/24/1987	Ekker			
	ED	4,715,791	12/29/1987	Berlin et al.			
	EE	4,729,717	3/8/1988	Gupta			
	EF	4,776,259	10/11/1988	Takai			
	EG	4,780,060	10/25/1988	Terauchi			
	EH	4,811,624	3/14/1989	Fritsch			
	EI	4,852,418	8/1/1989	Armstrong			
	EJ	4,869,212	9/26/1989	Sverdlin			

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Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant DT09 Rec'd PCT/PTO 28 SEP 2004 Albert E. Sanderson et al.	
		Filing Date Herewith	Group Art Unit
(37 CFR §1.98(b))			

	EK	4,920,859	5/01/1990	Smart et al.			
	EL	4,941,809	7/17/1990	Pinkerton			
	EM	4,966,042	10/30/1990	Brown			
	EN	5,002,466	3/26/1991	Inagaki et al.			
	EO	5,007,385	4/16/1991	Kitaguchi			
	EP	5,025,757	6/25/1991	Larsen			
	EQ	5,027,756	7/2/1991	Shaffer			
	ER	5,044,889	9/3/1991	Pinkerton			
	ES	5,049,799	9/17/1991	Tsai et al.			
	ET	5,063,829	11/12/1991	Takao et al.			
	EU	5,088,902	2/18/1992	Marioni			
	EV	5,094,195	3/10/1992	Gonzalez			
	EW	5,102,306	4/7/1992	Liu			
	EX	5,113,809	5/19/1992	Ellenburg			
	EY	5,129,797	7/14/1992	Kanamaru			
	EZ	5,136,987	8/11/1992	Schechter et al.			
	FA	5,154,589	10/13/1992	Ruhl et al.			
	FB	5,201,261	4/13/1993	Kayukawa et al.			
	FC	5,261,358	11/16/1993	Rorke			
	FD	5,280,745	1/25/1994	Maruno			
	FE	5,329,893	7/19/1994	Drengel et al.			
	FF	5,336,056	8/9/1994	Kimura et al.			
	FG	5,351,657	10/4/1994	Buck			
	FH	5,405,252	4/11/1995	Nikkamen			
	FI	5,437,251	8/1/1995	Anglim et al.			
	FJ	5,535,709	7/16/1996	Yashizawa			
	FK	5,542,382	8/6/1996	Clarke			
	FL	5,553,582	9/10/1996	Speas			
	FM	5,562,069	10/8/1996	Gillbrand et al.			

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	FN	5,572,904	11/12/1996	Minculescu			
	FO	5,596,920	1/28/1997	Umemura et al.			
	FP	5,605,120	2/25/1997	Hedelin			
	FQ	5,630,351	5/20/1997	Clucas			
	FR	5,634,852	6/3/1997	Kanamaru			
	FS	5,676,037	10/14/1997	Yoshizawa			
	FT	5,699,715	12/23/1997	Forster			
	FU	5,699,716	12/23/1997	Ota et al.			
	FV	5,704,274	1/06/1998	Forster			
	FW	5,762,039	6/9/1998	Gonzalez			
	FX	5,768,974	6/23/1998	Ikeda et al.			
	FY	5,782,219	7/21/1998	Frey, et al.			
	FZ	5,785,503	7/28/1998	Ota et al.			
	GA	5,818,132	10/06/1998	Konotchick			
	GB	5,839,347	11/24/1998	Nomura et al.			
	GC	5,890,462	4/6/1999	Bassett			
	GD	5,894,782	4/20/1999	Nissen et al.			
	GE	5,897,298	4/27/1999	Umemura			
	GF	5,927,560	7/27/1999	Lewis et al.			
	GG	5,931,645	8/3/1999	Goto et al.			
	GH	6,012,903	1/11/2000	Boelkins			
	GI	6,053,091	4/25/2000	Tojo			
	GJ	6,065,433	5/23/2000	Hill			
	GK	6,074,174	6/13/2000	Lynn et al.			
	GL	6,155,798	12/5/2000	Deininger et al.			
	GM	6,397,794	6/4/2002	Sanderson et al.			
	GN	6,422,831	7/23/2002	Ito et al.			
	GO	US-2002-0106238	8/8/2002	Sanderson et al.			
	GP	6,446,587	9/10/2002	Sanderson et al.			

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		Filing Date Herewith	Group Art Unit

	GQ	6,460,450	10/8/2002	Sanderson et al.			
	GR	US-2002-0194987	12/26/2002	Sanderson et al.			
	GS	US-2003-0084785	05/08/2003	Sanderson et al.			
	GT	US-2003-0138331	07/24/2003	Sanderson et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	GU	EP 0052387	10/18/1981	European				
	GV	461,343	12/26/1913	France				
	GW	815,794	04/1937	France			X	
	GX	1 015 857	10/27/1952	France				
	GY	1,416,219	9/20/1965	France			X	
	GZ	1,450,354	7/18/1966	France			X	
	HA	2,271,459	11/9/1973	France			X	
	HB	2 300 262	2/4/1975	France			X	
	HC	2,453,332	4/6/1979	France			X	
	HD	2 566 460	12/1985	France			X	
	HE	FR 2 649 755	01/18/1991	France				
	HF	89,352	12/31/1895	Germany				
	HG	345,813	7/25/1917	Germany			X	
	HH	515,359	12/18/1930	Germany				
	HI	698,243	10/1940	Germany				
	HJ	1 037 799	12/1/1958	Germany			X	
	HK	1,451,926	5/7/1965	Germany			X	
	HL	DT 2346836 A1	03/1975	Germany			X	
	HM	DE 2612270	09/22/1977	Germany			X	
	HN	DE 27 51 846	11/19/1977	Germany			X	
	HO	DE 29 31 377	2/26/1981	Germany			X	

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	HP	DE 3420529	12/05/1985	Germany			X	
	HQ	DE 37 00 005	7/14/1988	Germany			X	
	HR	282,125	12/1927	Great Britain				
	HS	GB 651893	04/11/1951	Great Britain				
	HT	55-37541	9/9/1978	Japan			X	
	HU	60-164677	8/27/1985	Japan			X	
	HV	61-212656	9/20/1986	Japan			X	
	HW	62-113938	4/25/1987	Japan			X	
	HX	JP 09151840	06/10/1997	Japan			X	
	HY	121,961	1/8/1920	United Kingdom				
	HZ	220,594	3/1924	United Kingdom				
	IA	629,318	9/1947	United Kingdom				
	IB	GB 2030254	10/3/1978	United Kingdom				
	IC	1,595,600	8/21/1981	United Kingdom				
	ID	WO 91/02889	03/07/1991	WIPO				
	IE	WO 92/11449	07/1992	WIPO				
	IF	WO 97/10415	3/20/1997	WIPO				
	IG	WO 99/14471	03/25/1999	WIPO				
	IH	WO 00/15955	03/23/2000	WIPO				
	II	WO 01/11237	02/15/2001	WIPO				
	IJ	WO 02/063139	08/15/2002	WIPO				
	IK	WO 03/100231	12/04/2003	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	IL	Advanced diaphragm metering pump technology for lower pressure applications, LEWAecodos®
	IM	Bloomfield, Louis A., "How Things Work: Electric Motors," howthingswork.Virginia.edu, October 25, 2001, http://rabi.phys.virginia.edu/HTW/electric_motors.html .
	IN	Den Hartog, J.P. (Jacob Pieter), "Problem 144" 1956 New York
	IO	ECycle Inc. schematic

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Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	IP	Freudenstein, "Development of an Optimum Variable-Stroke Internal-Combustion Engine Mechanism from the Viewpoint...", Journal of Mechanisms, Transmissions, and Automation in Design, vol. 105, pp. 259-266, 1984.
	IQ	Freudenstein, "Kinematic Structure of Mechanisms for Fixed and Variable-Stroke Axial-Piston Reciprocating Machines," Journal of Mechanisms, Transmissions, and Automation in Design, VI. 106, pp. 355-363, 1984.
	IR	Metering Pumps, LEWA modular®, American Lewa, The Technology Advantage.
	IS	Red Barn Engineering Presents, "Internal Combustion Motor with Integral Electric Generator For Use In Electric Vehicles," The MOGEN – Motor Generator – Hybrid Vehicles, http://www.mogen.net/index.shtml , copyright 1998.
	IT	Redlich, Robert, "A Summary of Twenty Years Experience with Linear Motors and Alternators," Sunpower, Inc., Athens, Ohio, U.S.A., 1996, http://www.sunpower.com/tech_papers/pub64/linmot.html .
	IU	Sunpower, Inc., "High Efficiency, Oil-Free Compressor: Better Machines for A Better World," http://www.sunpower.com/compressors/compressor/index.html .
	IV	International Search Report mailed August 19, 2003 in Int. App. No. PCT/US03/09702.
	IW	International Search Report mailed May 31, 2002 in Int. App. No. PCT/US02/03220.
	IX	Written Opinion mailed December 03, 2002 in Int. App. No. PCT/US02/03220.

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